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(54) Title: **LIQUID VACCINES FOR MULTIPLE MENINGOCOCCAL SEROGROUPS**

(57) Abstract: Conjugated capsular saccharides from meningococcal serogroups C, W135 and Y are safe and immunogenic in hu-  
mans when combined in a single dose. This effect is retained when a conjugated capsular saccharide from serogroup A is added.  
These conjugated antigens can be stably combined in a single aqueous dose without the need for lyophilisation. Broad protection  
against serogroup B infection can be achieved by using a small number of defined polypeptide antigens. These polypeptide antigens  
can be combined with the saccharide antigens without loss of protective efficacy for any of the five serogroups. Efficacy is retained  
even if a Hib conjugate is added. The efficacy of a serogroup W135 conjugate is enhanced by addition of protein antigens derived  
from a serogroup B strain. Addition of a Hib conjugate to meningococcal conjugates enhances the overall activity against meningo-  
coccus serogroup W135.



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